CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21 Date:21.04.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample : :Cement (Dalmia 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : March - 2021

Date of Testing 19.04.2021 to 21.04.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21 Date : 21.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Date of Testing : 21.04.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	207	1.38	1.38	98.62	95-100
20	8251	55.01	56.39	43.61	30-70
10	3196	21.31	77.69	22.31	10-35
4.75	2683	17.89	95.58	4.42	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21 Date : 21.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Date of Testing : 21.04.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	218	4.4	4.4	95.6	95-100
10	2862	57.2	61.6	38.4	25-55
4.75	1538	30.8	92.4	7.6	0-10

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Job No.: CQCE/BBMP/RS/03/2020-21

Date :21.04.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Steel Dia/Length : 8mm,10mm,12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test :21.04.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.399	514	611	1.19	18
2	TMT	10	0.617	528	615	1.16	14
3	TMT	12	0.886	505	593	1.17	15.5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No CQCE/BBMP/RS/03/2020-21 Date: 06.05.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**: Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Contractor	:	**: Sri. R Shivaram,** Contractor, Bangalore.
Name of Work	:	: Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	06.05.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M15

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.368	2313.84	1.62	0.959	24.50	12.48	13.48	12.92	16.15
2	50.00	83.00	0.382	2343.99	1.66	0.963	25.80	13.14	14.19	13.67	17.09
3	50.00	88.00	0.411	2378.64	1.76	0.974	26.10	13.29	14.36	13.98	17.48

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Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No CQCE/BBMP/RS/03/2020-21

Date: 06.05.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Contractor	:	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of Work	:	: Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	06.05.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	115.00	1.692	2312.74	1.28	0.922	135.60	21.31	23.02	21.22	26.53
2	90.00	118.00	1.754	2336.54	1.31	0.926	132.80	20.87	22.54	20.87	26.08
3	90.00	121.00	1.823	2368.24	1.34	0.929	138.20	21.72	23.46	21.80	27.25

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Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21 Date: 01.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency : **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.04.2021	01.05.2021	8.008	383.3	17.04
2	24.04.2021	01.05.2021	8.136	392.2	17.43
3	24.04.2021	01.05.2021	8.098	378.8	16.84

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21 Date: 03.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.202	369.9	16.44
2	26.04.2021	03.05.2021	8.154	382.2	16.99
3	26.04.2021	03.05.2021	8.063	373.3	16.59

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21

Date: 21.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2021	21.05.2021	8.197	510.8	22.70
2	23.04.2021	21.05.2021	8.164	525.5	23.36
3	23.04.2021	21.05.2021	8.132	541.6	24.07

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21 Date: 21.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2021	21.05.2021	8.015	513.4	22.82
2	23.04.2021	21.05.2021	8.066	526.5	23.40
3	23.04.2021	21.05.2021	8.104	537.1	23.87

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು-10೮

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Job No.: CQCE/BBMP/RS/03/2020-21

Date: 21.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.04.2021	21.05.2021	8.051	518.5	23.04
2	23.04.2021	21.05.2021	8.158	521.5	23.18
3	23.04.2021	21.05.2021	8.126	504.7	22.43

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21

Date: 22.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.04.2021	22.05.2021	8.134	503.8	22.39
2	24.04.2021	22.05.2021	8.159	492.8	21.90
3	24.04.2021	22.05.2021	8.077	516.6	22.96

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21

Date: 22.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

SlNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.04.2021	22.05.2021	8.099	527.2	23.43
2	24.04.2021	22.05.2021	8.118	515.9	22.93
3	24.04.2021	22.05.2021	8.062	503.7	22.39

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Job No.: CQCE/BBMP/RS/03/2020-21

Date: 22.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.04.2021	22.05.2021	8.170	511.7	22.74
2	24.04.2021	22.05.2021	8.149	524.8	23.32
3	24.04.2021	22.05.2021	8.121	536.6	23.85

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Pooja. S

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@[illegible].com

CQCE CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2020-21

Date: 24.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements To Drains At SFS 707 and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	24.05.2021	8.011	473.5	21.04
2	26.04.2021	24.05.2021	8.168	480.9	21.37
3	26.04.2021	24.05.2021	8.143	499.7	22.21

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಕೆ.ಎಸ್.ಎ.ಡಿ. ಬೆಂಗಳೂರು-106

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Pooja.S
Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Ban -560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@ m

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	24.05.2021	8.006	510.6	22.69
2	26.04.2021	24.05.2021	8.101	522.7	23.23
3	26.04.2021	24.05.2021	8.164	536.9	23.86

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Pooja S
Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com